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(54) MANUFACTURE OF QUINOLINECARBOALDEHYDE

(57) Abstract:

PURPOSE: Τo obtain quinolinecarboaldehyde а compound high yield by oxidiz in 2-cyclopropyl-4-(4-fluorophenyl)-3-hydroxymethylquinoline in the presence of a specific nitrosyl free radical derivative with a hypohalite.

CONSTITUTION:

2-Cyclopropyl-4-(4-fluorophenyl)quinoline-3-carboaldehyd obtained by 2-cyclopropyl-4-(4-fluorophenyl)-3-hydroxymethylquinoline . This oxidation reaction is carried out in the presence of a nitrosyl free radical derivative of formula I or formula II (X1 and X2 are each H, a halogen, OH, a 1-5C alkyl, a 5-6C cycloalkyl, a 1-5C alkoxy, a 1-10C acyloxy, etc., or X1 and X2 together form O; R1 to R4 are each a 1-5C alkyl; m is 0 to 1) with a hypohalite. Preferable examples of the nitrosyl free radical derivative include 2,2,6,6-tetramethylpiperidine-1-oxyl, etc. Further, potassium bromide or sodium bromide is preferably added into the reaction system.

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